

**14.** The non-transitory machine readable medium of claim **8**, wherein the plurality of devices comprises a center speaker device, a right speaker device, and a left speaker device.

**15.** A playback device of a playback system comprising a plurality of playback devices, the playback device comprising:

- a network interface;
- a set of one or more processors; and
- a non-transitory machine readable medium containing processor instructions, where execution of the instructions by a processor causes the processor to perform a process comprising:
  - receiving information indicative of a first signal pattern for wireless signals between the plurality of playback devices;
  - receiving information indicative of a second signal pattern for the wireless signals between the plurality of playback devices;
  - determining an updated state of the playback system based on a difference between the second signal pattern and the first signal pattern; and
  - modifying the playback system based on the determined updated state.

**16.** The playback device of claim **15**, wherein determining an updated state comprises detecting a change in at least one of the group consisting of a location and orientation of at least one playback device of the plurality of playback devices.

**17.** The playback device of claim **16**, wherein the plurality of playback devices comprises at least two primary playback devices and a set of one or more secondary playback devices, wherein the first and second signal patterns com-

prise signal strengths measured between each of the at least two primary playback devices and the set of secondary playback devices, wherein detecting a change comprises determining a repositioning of the set of secondary playback devices.

**18.** The playback device of claim **16**, wherein the plurality of devices comprises a primary playback device and a set of one or more secondary playback devices, wherein the first and second signal patterns comprise signal strengths measured between at least one radio chain of the primary device and each of a plurality of radio chains on each of the secondary playback devices, wherein detecting a change comprises determining a repositioning of the set of secondary playback devices.

**19.** The playback device of claim **15**, wherein modifying the playback system comprises:

- determining whether the difference exceeds a threshold;
- when the difference exceeds a threshold, performing a recalibration process; and
- when the difference does not exceed a threshold, providing an instruction to reposition at least one playback device of the playback system.

**20.** The playback device of claim **15**, wherein measuring the first and second signal patterns comprises capturing a statistical measure of wireless signal strengths over a period of time.

**21.** The playback device of claim **15**, wherein modifying the playback system comprises:

- determining a predicted target action based on a machine learning model, wherein the machine learning model is trained based on states of the playback system and a history of device interactions; and
- performing the predicted target action.

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